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| App | licati | on/C | Control | No. |
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|     |        |      |         |     |

10/048,194

Examiner

Hong Sang

Applicant(s)/Patent under Reexamination

EMMERT-BUCK, MICHAEL R.

Art Unit

1643

| <b>√</b> | Rejected |
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|          | Allowed  |

(Through numeral)
Cancelled

Restricted

**Non-Elected** N Interference

Appeal Α 0 Objected

| Cla             | laim Date                                    |  |          |          |  |                                     |          | $\neg$   |          |          |
|-----------------|--|--|----------|----------|--|-------------------------------------|----------|----------|----------|----------|
|                 | $\vdash$                                     |  |          |          | - 4(6  | _                                   |          |          | $\dashv$ |          |
| Final           | Original                                     | 7/20/06  |          |          |  |                                     |          |          |          |          |
|                 | 1  | =  |          |          |  |                                     |          |          |          | $\Box$   |
|                 | 1<br>2<br>3<br>4<br>5                        | Ť  |          |          |  |                                     |          |          |          | $\neg$   |
|                 | 3  | Н  |          |          |  | _                                   |          |          |          | $\neg$   |
| -               | 4  | Н  |          |          |  |                                     |          |          |          | $\neg$   |
| <del></del>     |  | Н  | _        | _        | _  | _                                   |          |          | _        |          |
| <u> </u>        | 6  | Н  |          | -        | -  | -                                   |          |          |          | $\dashv$ |
| $\vdash$        | 6<br>7                                       | Н  |          | _        | _  |                                     | H        |          |          | $\dashv$ |
| <del> </del>    | 8  | Н  |          |          |  | _                                   | -        |          |          | $\dashv$ |
|                 | 9  | H  | -        |          |  |                                     | -        |          | -        | $\dashv$ |
| <u> </u>        | 10   | Н  |          | _        | ⊢  | -                                   | _        | -        | _        | $\dashv$ |
| <del> </del>    | 11   | HH   |          | -        | $\vdash$                                     | $\vdash$                            | $\vdash$ | -        | H        | Н        |
| <del></del>     | 11   | #  | _        |          | $\vdash$                                     | Н                                   | $\vdash$ |          | $\vdash$ | $\vdash$ |
| <del></del>     | 12   | -  | -        | —        | $\vdash$                                     | -                                   | -        |          | $\vdash$ | $\vdash$ |
| $\vdash \vdash$ | 13   | H  | _        | -        | ├  | -                                   | $\vdash$ |          | _        | $\vdash$ |
| <u> </u>        | 14   | ₩  | -        |          | -  | $\vdash$                            | $\vdash$ |          |          |          |
| <u> </u>        | 15   | 1  | <u> </u> | <u> </u> | ├-   | $\vdash$                            | <u> </u> |          | $\vdash$ | Н        |
|                 | 10   |  |          | _        | -  | $\vdash$                            | $\vdash$ |          | $\vdash$ | $\vdash$ |
| <u> </u>        | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | -  |          | <u> </u> | $\vdash$                                     | -                                   | $\vdash$ |          | -        | $\vdash$ |
|                 | 18   | Ш  | _        | <u> </u> | ├  | _                                   | _        |          |          |          |
|                 | 19   | ╀  | _        |          |  | _                                   | _        |          | _        | $\dashv$ |
|                 | 20   | 1  | _        |          | _  |                                     |          |          |          | Н        |
|                 | 21   | 1  | _        | <u> </u> | _  | <u> </u>                            |          | _        | _        | Н        |
|                 | 22   | 4  | _        | _        | <u> </u>                                     | <u> </u>                            | Ь.       |          |          | -        |
|                 | 23   | ╀  | <u> </u> | _        | <u> </u>                                     | _                                   | <u> </u> | _        | _        | -        |
| <u> </u>        | 24   | ₩  | _        | <u> </u> | <u> </u>                                     | _                                   | <u> </u> |          |          | -        |
|                 | 25   | ╨  | _        | <u> </u> | <u> </u>                                     | _                                   | <u> </u> |          |          | Н        |
|                 | 26   | Н-   | _        | <u> </u> | L  | _                                   | <u> </u> |          |          | Н        |
|                 | 27   | 4  |          | _        | $\vdash$                                     | <u> </u>                            | _        |          |          | Н        |
| <u> </u>        | 28   | 4  |          | <u> </u> | <u> </u>                                     | _                                   | <u> </u> |          | _        | Н        |
|                 | 29   | Ш  |          | <u> </u> | _  | _                                   | <u> </u> | _        |          | Ш        |
|                 | 28<br>29<br>30                               | Щ.   | L_       | <u> </u> | <u> </u>                                     | <u> </u>                            | <u> </u> | <u> </u> | <u> </u> | Щ        |
| <u> </u>        | 31   | 11   | <u> </u> | <u> </u> | <u> </u>                                     | <u> </u>                            | <u> </u> | _        | <u> </u> | Щ        |
|                 | 32   | 11-  | <u> </u> | _        | <u> </u>                                     | _                                   | _        | _        | <u> </u> | Ш        |
|                 | 33   | 1  | <u> </u> | L_       | _  | <u> </u>                            | <u> </u> | _        | <u> </u> | Ш        |
| <u></u>         | 34   | 11   | L.       |          | 1_   | <u></u>                             | <u> </u> | <u> </u> | <u> </u> | Щ        |
| <u> </u>        | 35   | Щ  | <u> </u> | <u> </u> | <u> </u>                                     | <u> </u>                            | <u> </u> | <u> </u> | <u> </u> | Ш        |
| <u> </u>        | 36<br>37                                     | Щ  | <u> </u> | L_       | ـــــ  | _                                   | <u> </u> | <u> </u> | <u> </u> | Ш        |
|                 | 37   | Щ  | <u> </u> | <u> </u> | <b>L</b>                                     |                                     | <u> </u> | <u> </u> | <u> </u> | Ш        |
|                 | 38   | Ш  | <u>L</u> | L_       | _  | _                                   |          | <u> </u> | <u> </u> | Ш        |
|                 | 39   | Ш  | _        | <u> </u> | <u> </u>                                     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _        | <u> </u> | <u> </u> | Ш        |
|                 | 40   | Ш  | _        | <u> </u> | _  | _                                   | L        | _        |          | Ш        |
|                 | 41   | $\!$ |          | <u> </u> | $oxed{oxed}$                                 | _                                   |          |          | L        | Ш        |
|                 | 42   | Ц_   | <u> </u> | <u> </u> | <u>L</u>                                     | _                                   | <u>_</u> | <u> </u> |          | Ш        |
| L               | 43   | Ľ  | <u> </u> | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ | ot                                  | _        | _        | <u> </u> | Ш        |
| L               | 44   | =  | <u> </u> |          | <u> </u>                                     | _                                   | _        |          |          | Ш        |
| <u></u>         | 18   | ļ.,  | _        | <u>_</u> | <u></u>                                      |                                     |          | _        | <u> </u> | Ш        |
|                 | 46   | V  | L_       | Щ        | _  | L                                   | <u>L</u> | <u> </u> | <u> </u> | Ш        |
| Ш               | 47   | 1  | <u> </u> | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$          | _                                   | <u> </u> | _        | <u> </u> | Ш        |
|                 | 48   | Щ  |          | _        | _  | <u>L</u>                            |          | _        | <u> </u> | Ш        |
|                 | 49   | V  | <u> </u> | <u> </u> | _  |                                     | <u></u>  | <u> </u> |          |          |
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|----------|--|----------------|--------------|--------------|--------------|----------|---------------|--------------|-------------|--------------|
|          |  |                |              |              |              |          |               |              |             |              |
| Final    | Original   | 7/20/06        |              |              |              |          |               |              |             |              |
|          | 51   | 1              |              |              | -            |          |               |              |             |              |
|          | 52   | 1              |              |              | ٠.           |          |               |              |             |              |
|          | 53   | П              |              |              |              |          |               |              |             |              |
|          | 54   | 7              |              |              |              |          |               |              |             |              |
|          | 58   | H              |              |              |              | _        | $\overline{}$ |              |             |              |
|          | 56   |                |              |              |              |          |               |              |             |              |
|          | 37   |                |              |              | _            |          |               |              |             |              |
|          | 58   |                | _            |              |              |          | _             |              |             |              |
|          | 50   |                |              |              |              |          |               |              |             |              |
|          | 60   | _              |              |              |              |          |               |              |             |              |
|          | 61   |                |              |              |              |          |               |              |             |              |
|          | 62   | П              |              | Н            |              |          |               | _            | _           |              |
|          | 63   |                |              |              |              |          |               |              |             | М            |
|          | 64   |                |              |              | _            | П        | П             |              |             |              |
|          | 52<br>53<br>54<br>55<br>56<br>57<br>58<br>59<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60 |                |              | $\Box$       |              | П        | $\Box$        |              |             |              |
|          | 66   |                | -            | М            |              | Г        |               |              |             |              |
|          | 67   | =              |              |              |              |          |               |              |             |              |
|          | 68<br>69   | 111            |              | П            |              |          |               |              |             |              |
|          | 69   | =              |              |              |              |          |               |              |             |              |
|          | 70   | =              |              |              |              |          |               |              |             |              |
|          | 71   | 1 7            |              |              |              | Г        |               |              |             |              |
|          | 72   | =              |              |              |              |          | Г             |              |             |              |
|          | 71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80   |                |              |              |              |          |               |              |             |              |
|          | 74   |                |              |              |              |          |               |              |             |              |
|          | 75   |                |              |              |              |          |               |              |             |              |
|          | 76   |                |              |              |              |          |               |              |             |              |
|          | 77   |                |              |              |              |          |               |              | Ĺ           |              |
|          | 78   |                | <u>L</u> .   | _            |              |          |               |              |             |              |
|          | 79   | L              | <u> </u>     |              |              | <u> </u> |               |              |             |              |
| <u></u>  | 80   | L              |              | L            |              |          |               |              |             |              |
|          | 81   |                |              | _            | _            | <u> </u> | _             |              | L           |              |
|          | 82   | <u> </u>       | <u> </u>     |              | _            | L        | <u> </u>      |              |             | _            |
| <u></u>  | 82<br>83<br>84   |                | _            |              | L            | L        | L.            |              | <u>_</u>    | _            |
|          | 84   | <u> </u>       | <u> </u>     | <u> </u>     | <u> </u>     | <u> </u> | <u> </u>      | L_           |             | <u> </u>     |
|          | 85<br>86   | _              | <u> </u>     | <u> </u>     | L_           |          | ļ             | <u> </u>     | ļ           | _            |
|          | 86   | _              | <u> </u>     |              | L            | <b> </b> | _             | <u> </u>     | <u> </u>    | <u> </u>     |
|          | 87<br>88   | _              | <u> </u>     | _            | ļ.—          | <u> </u> | <u> </u>      | <b> </b>     | <b> -</b> - | $\vdash$     |
|          | 88   | <u> </u>       | <u> </u>     | _            |              |          | <u> </u>      | $\vdash$     | $\vdash$    | _            |
|          | 89   | <u> </u>       | -            | <b>—</b>     |              | ├—       | -             | <u> </u>     | $\vdash$    | $\vdash$     |
| -        | 90   | ₩              | ├—           | <u> </u>     | $\vdash$     | ├-       | <del> </del>  | -            | $\vdash$    | $\vdash$     |
| -        | 91   | <del> </del> — | ├            | $\vdash$     |              | ⊢        | <del> </del>  | $\vdash$     | $\vdash$    | $\vdash$     |
| -        | 92   | -              | ├            | $\vdash$     | $\vdash$     |          | <del> </del>  | ⊢            | $\vdash$    |              |
| -        | 93   | <del> </del>   | $\vdash$     | -            | <del> </del> | -        | $\vdash$      |              | $\vdash$    | -            |
|          | 94   | $\vdash$       | -            | -            | -            | -        | -             | <del> </del> | -           | -            |
| <u> </u> | 95<br>96   | $\vdash$       | -            | <del> </del> |              | -        | ⊢             | ┝            | -           | $\vdash$     |
|          | 95   | -              | <del> </del> | $\vdash$     | ├-           | ⊢        |               | $\vdash$     | $\vdash$    | -            |
| -        | 98   | -              | $\vdash$     |              | $\vdash$     |          | $\vdash$      | ├-           | -           | <del>-</del> |
|          | 99   | $\vdash$       | $\vdash$     | -            | ├            | $\vdash$ | $\vdash$      | ⊢            | $\vdash$    | $\vdash$     |
| -        | 100  | $\vdash$       |              | -            | ⊢            | -        | <del> </del>  | ├            | $\vdash$    | $\vdash$     |
|          | 100  |                |              | <u> </u>     | <u> </u>     | L        |               | L            | Щ.          | L            |

| Claim        |  | Date   |              |              |  |          |  |          |  |           |  |
|--------------|--|--|--------------|--------------|--|----------|--|----------|--|-----------|--|
| Final        | Original   |  |              |              |  |          |  |          |  |           |  |
| -            | 101  |  |              |              |  |          |  |          |  |           |  |
|              | 102<br>103<br>104<br>105<br>106<br>107<br>108                      |  |              |              |  |          |  |          |  |           |  |
|              | 103  |  |              |              |  |          |  |          |  |           |  |
|              | 104  |  |              |              |  |          |  |          |  | Ш         |  |
|              | 105  |  |              | _            |  |          |  |          |  |           |  |
|              | 105  |  | _            | -            | <u> </u>   |          |  |          |  |           |  |
|              | 107  | _  |              | -            | _  |          |  |          | _  |           |  |
|              | 100  | _  |              | Н            | -  |          | $\vdash$   | _        |  | Н         |  |
|              | 110<br>111<br>112  |  |              |              |  |          |  |          |  | П         |  |
|              | 111  |  |              |              |  |          |  |          |  |           |  |
|              | 112  |  |              |              |  |          |  |          |  |           |  |
|              | 113<br>114<br>115<br>116   |  |              |              |  |          |  |          |  |           |  |
|              | 114  | _  |              |              |  |          |  |          |  |           |  |
|              | 115  |  |              |              |  |          | <u> </u>   |          | _  | $\square$ |  |
|              | 116  | <u> </u>   |              | <u> </u>     | <u> </u>   | $\vdash$ | <u> </u>   |          |  | $\dashv$  |  |
|              | 117<br>118<br>119<br>120   | $\vdash$   | _            |              |  | _        |  | _        |  | $\vdash$  |  |
|              | 110  | $\vdash$   | -            | -            | $\vdash$   | $\vdash$ | <del> </del> —                                   | _        |  | $\vdash$  |  |
| -            | 120  | $\vdash$   | $\vdash$     | -            | -  | $\vdash$ | ┢╌   |          | -  | H         |  |
|              | 121  | $\vdash$   |              | -            | $\vdash$   | $\vdash$ |  |          |  | H         |  |
|              | 122  | _  | <del> </del> | Г            | T  | $\vdash$ |  |          |  | П         |  |
|              | 123  |  |              |              |  |          |  |          |  |           |  |
|              | 124  |  |              |              |  |          |  |          |  |           |  |
|              | 125  |  | Ļ            |              |  |          |  |          | _  | Ш         |  |
|              | 121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 |  | <u> </u>     | _            | _  | <u> </u> |  | L_       | _  | Ш         |  |
|              | 127  |  | ┡            | ┡            | _  | <u> </u> | <u> </u>   | <u> </u> |  | Н         |  |
|              | 128  | -  | <u> </u>     | ⊢            | ├  | ├        | -  | ⊢        | _  | H         |  |
|              | 130  | -  | -            | ┢            | $\vdash$   | ┢        | ├  |          | -  | $\vdash$  |  |
|              | 131  | -  | ┢            | -            | $\vdash$   | $\vdash$ | $\vdash$   | ├─       | ├  | $\vdash$  |  |
|              | 132  | ┪  | $\vdash$     |              | -  | $\vdash$ | _  | _        | _  | Н         |  |
|              | 132<br>133<br>134<br>135<br>136                                    |  |              | $\vdash$     |  | $\vdash$ | <del>                                     </del> | _        | $\vdash$   | П         |  |
|              | 134  |  |              |              | Т  | Г        |  |          |  |           |  |
|              | 135  |  |              |              |  |          |  |          |  |           |  |
|              | 136  |  |              |              |  |          |  |          | Ĺ  | Ш         |  |
| <u> </u>     | 137<br>138   | <u> </u>   | _            | <u> </u>     | _  | <u> </u> | _  | <u> </u> | _  | Ш         |  |
| <u> </u>     | 138  | <u> </u>   | <u> </u>     | <del> </del> | _  | _        | -  | -        | $\vdash$   | $\vdash$  |  |
| <u> </u>     | 139<br>140   | -  | $\vdash$     | ₩            | -  | -        | -  | -        | -  | $\vdash$  |  |
|              | 141  | -  | 1            | ╁            | $\vdash$   | -        | -  | $\vdash$ | $\vdash$   | Н         |  |
| <del> </del> | 142  | $\vdash$   | $\vdash$     | $\vdash$     | -  | -        | $\vdash$   | $\vdash$ | -  | Н         |  |
|              | 143  | <del>                                     </del> | <u> </u>     | t            | <del>                                     </del> | $\vdash$ | T  | $\vdash$ | <del>                                     </del> | Н         |  |
|              | 144  |  |              | $I^-$        |  | Г        |  |          |  | М         |  |
|              | 145  |  |              |              |  |          |  |          |  |           |  |
|              | 146  |  |              |              |  |          |  |          |  |           |  |
|              | 147  |  |              |              | _  | L        |  |          |  | Ш         |  |
|              | 148  | _  | <u> </u>     | $\vdash$     | _  | ┞        | _  | _        | _  | Ш         |  |
|              | 149  | <b> </b>   | <u> </u>     | -            | _  | -        | $\vdash$   | -        | -  | Н         |  |
| L            | 150  | <u> </u>   | L            | 1            | L  | <u></u>  | <u> </u>   | <u> </u> | Ц_   | لــــا    |  |